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L16: Entry 4 of 4

File: DWPI

Sep 15, 1977

DERWENT-ACC-NO: 1977-H7599Y  
DERWENT-WEEK: 197738  
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TITLE: Mobile street washer and suction machine – has water jet pump connected to pressure pump and suction duct

PATENT-ASSIGNEE:	
ASSIGNEE	CODE
WOMA APP MAASBERG W	WOMAN

PRIORITY-DATA: 1976DE-2617635 (April 22, 1976)

PATENT-FAMILY:				
PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 2617635</u> B	September 15, 1977		000	

INT-CL (IPC): E01H 1/10

ABSTRACTED-PUB-NO: DE 2617635B  
BASIC-ABSTRACT:

The street cleaning suction and washing machine incorporates a high-pressure pump connected to a water supply with a spray bar with downward directed compressed water jets. A suction device is provided for the resultant dirty water on the surface, and a water cleaning system is then used.

The suction device is in the form of a water jet pump attached firstly to the high-pressure pump via a pressure duct and secondly to the suction duct. The dirty water duct may be connected to the water tank.

TITLE-TERMS: MOBILE STREET WASHER SUCTION MACHINE WATER JET PUMP CONNECT PRESSURE PUMP SUCTION DUCT

DERWENT-CLASS: Q41



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L17: Entry 1 of 6

File: DWPI

Sep 16, 1994

DERWENT-ACC-NO: 1994-296196

DERWENT-WEEK: 199437

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TITLE: Device for cleaning roads by using pressurised fluid jets - includes high pressure water supply pipe connected to flexible pipe in turn connected to revolving stand which has water projection nozzles in its lower part

INVENTOR: HUWER, J

PATENT-ASSIGNEE:

ASSIGNEE

ETAB HUWER ASSAINISSEMENT J

CODE

HUWEN

PRIORITY-DATA: 1993FR-0002814 (March 11, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR 2702397 A1	September 16, 1994		010	B08B003/02
EP 617174 A1	September 28, 1994	F	007	E01H001/10

DESIGNATED-STATES: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

CITED-DOCUMENTS: AU 587113; CH 569844 ; DE 1459662 ; DE 3233274 ; DE 8701171 ; FR 2515536 ; US 1363993

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
FR 2702397A1	March 11, 1993	1993FR-0002814	
EP 617174A1	March 11, 1994	1994EP-0400532	

INT-CL (IPC): B08B 3/02; E01H 1/10; E01H 3/02

ABSTRACTED-PUB-NO: FR 2702397A

BASIC-ABSTRACT:

The device is hydraulically connected to a lorry by a suction pipe and by a high pressure water supply pipe (6). The supply pipe (6) in the upper part (7a) of the casing is fixed to a fixed connector (8). On the other end of the connector (8) is a flexible pipe (9) which can resist the high water pressure led through the pipe (6).

The lower end of the pipe (9) is connected to a revolving stand (10) which has water projection nozzles (11) in its lower part. The revolving stand is mounted on a part (12) fixed to the lower wall (7b) of the

casing, and freely turning about a vertical axis (13).

ADVANTAGE – The free revolving of the nozzles avoids the constraints of torsion on the flexible pipe thus preserving its integrity. Can be easily maintained.

CHOSEN–DRAWING: Dwg.4/4

TITLE–TERMS: DEVICE CLEAN ROAD PRESSURISED FLUID JET HIGH PRESSURE WATER SUPPLY PIPE  
CONNECT FLEXIBLE PIPE TURN CONNECT REVOLVING STAND WATER PROJECT NOZZLE LOWER PART

DERWENT–CLASS: P43 Q41

SECONDARY–ACC–NO:

Non–CPI Secondary Accession Numbers: N1994–233028



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L16: Entry 2 of 4

File: DWPI

Aug 24, 1988

DERWENT-ACC-NO: 1988-236947

DERWENT-WEEK: 198834

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TITLE: Road cleaning vehicle - has suction collector for sprayed liq. at rear of vehicle, connected to reservoir

INVENTOR: LEDREAN, C; MILLY, G

PATENT-ASSIGNEE:

ASSIGNEE

COMMISSARIAT ENERGIE ATOMIQUE

CODE

COMS

PRIORITY-DATA: 1987FR-0001413 (February 5, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 279729 A	August 24, 1988	F	008	
DE 3862483 G	May 29, 1991		000	
EP 279729 B	April 24, 1991		000	
FR 2610651 A	August 12, 1988		000	
US 4845801 A	July 11, 1989		006	

DESIGNATED-STATES: CH DE FR GB IT LI CH DE FR GB IT LI

CITED-DOCUMENTS:1.Jnl.Ref; DE 2617635 ; DE 3230520 ; DE 3311695 ; US 3959010

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 279729A	February 2, 1980	1980EP-0400244	
US 4845801A	February 3, 1988	1988US-0151972	

INT-CL (IPC): E01H 1/10; E01H 15/00; G21F 9/00

ABSTRACTED-PUB-NO: EP 279729A

BASIC-ABSTRACT:

A road clearing vehicle has a reservoir of clearing liquid, a sprayer at the rear of the vehicle, a suction collector at the rear of the vehicle passing liquid sprayed onto the road to a second reservoir, and a wetting system at the front of the vehicle.

The sprayer and collector pref. extend traverse to the vehicle and are housed in causing terminating in

bands dragging on the road.

USE/ADVANTAGES - For treating chemical or radioactive pollution. The liquid is not left on the road.

ABSTRACTED-PUB-NO:

EP 279729B

EQUIVALENT-ABSTRACTS:

Vehicle for cleaning surfaces incorporating a cleaning liquid tank (2), a device (7) for spraying the liquid onto the surface to be cleaned and a device (6) for sucking the sprayed. liq. towards a second tank (3), characterised in that the spraying and suction devices are located at the rear of the vehicle and in that the vehicle also comprises a device (30) for moistening the surface at the front of the vehicle.

(7pp)

US 4845801A

Vehicle to clean surfaces comprises (1) a first tank for storing cleaning liq., (2) means to spray liq. at a first pressure and first flow rate onto the surface cleaned, (3) means to suck the sprayed liq. into a second tank and (4) means to moisten the surface cleaned with liq. at a second pressure and flow rate which are lower than first pressure and flow rate, whereby spraying- and suction arrangements are at the rear of the vehicle and the means for moistening the surface is at the front of the vehicle.

USE/ADVANTAGE - Vehicle can be used for cleaning by liq. spraying and suction. Cleaning liq. spraying-and the sprayed liq. suction-means can be combined on a single vehicle.

(6pp)

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: ROAD CLEAN VEHICLE SUCTION COLLECT SPRAY LIQUID REAR VEHICLE CONNECT RESERVOIR

DERWENT-CLASS: K07 Q41

CPI-CODES: K07-A03;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1988-105966

Non-CPI Secondary Accession Numbers: N1988-180032



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L6: Entry 4 of 7

File: DWPI

Nov 6, 1996

DERWENT-ACC-NO: 1998-019588

DERWENT-WEEK: 199803

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TITLE: Method for preparation of high efficiency detergent for cleaning runway in airport

INVENTOR: FANG, Z; GENG, J ; ZHUANG, L

PATENT-ASSIGNEE:

ASSIGNEE

UNIV HUANAN SCI &amp; ENG

CODE

UYHUN

PRIORITY-DATA: 1996CN-0100959 (January 18, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1134977A	November 6, 1996		000	C11D007/30

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1134977A	January 18, 1996	1996CN-0100959	

INT-CL (IPC): C11 D 7/30; E01 H 3/00

ABSTRACTED-PUB-NO: CN 1134977A

BASIC-ABSTRACT:

This high efficiency airport runway cleaning agent is prepared by adding 35-62 wt.% dichloroethane or trichloroethane, 22.7-48.7 wt.% toluene, 6.7-12.8 wt.% solvent oil No.2, 0.5-1.2 wt.% N,N'- diphenyl thiourea, 0.8-1.0 wt.% sodium sulphonate, 1 wt.% Op-100, and 1.2-2.2 wt.% formic acid in sequence under atmospheric temperature into a container and mixing thoroughly. During application, two trough wagons work together with a distance of 10 minutes running between them, the front one is used to spray cleaning agent and the latter one is used to rinse with high pressure water.

ADVANTAGE - This cleaning agent is easy to prepare, it can wash out hard rubber residue on the runway and will not harm the runway surface.

TITLE-TERMS: METHOD PREPARATION HIGH EFFICIENCY DETERGENT CLEAN RUNWAY AIRPORT

DERWENT-CLASS: E19 G04 Q41

CPI-CODES: E10-A09B5; E10-A13A2; E10-H04C4; E10-J02B4; G04-B08;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-007490

Non-CPI Secondary Accession Numbers: N1998-014785

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Term	Documents
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WATER.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	2749621
WATERS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	55563
RUNWAY.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1182
RUNWAYS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	372
((RUNWAY.TI.) AND SOLVENT AND WATER).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	7
(SOLVENT AND WATER AND RUNWAY.TI.).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	7

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*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*L6 solvent and water and runway.ti.7 L6L5 200200142592 L5L4 runway and solvent and brush and water and runway.ti.1 L4L3 runway and solvent and brush and water and ((134/\$)!.CCLS.)5 L3L2 runway and solvent and brush and water and ((15/\$)!.CCLS.)2 L2L1 runway and tire and solvent and brush and water and ((15/\$)!.CCLS.)1 L1

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L13: Entry 5 of 5

File: DWPI

May 7, 1987

DERWENT-ACC-NO: 1987-129975  
DERWENT-WEEK: 198719  
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TITLE: Truck-mounted cleaner for airport runways with separators – including flocculation tanks for sepn. of mineral oils and heavy metals permitting recycling of water

INVENTOR: STRATE, R

PATENT-ASSIGNEE:

ASSIGNEE	CODE
MEIER J	MEIEI

PRIORITY-DATA: 1985DE-3538539 (October 30, 1985)

PATENT-FAMILY:				
PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 3538539 A</u>	May 7, 1987		005	
<u>DE 3538539 C</u>	November 12, 1987		000	

APPLICATION-DATA:			
PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 3538539A	October 30, 1985	1985DE-3538539	

INT-CL (IPC): B01D 21/01; E01H 1/10; E03F 7/10

ABSTRACTED-PUB-NO: DE 3538539A  
BASIC-ABSTRACT:

A truck-mounted cleaner for roads, airport runways and the like, comprises water jets and suction equipment for the water-dirt mixture, together with separators for the contained solids and suspended constituents. Several such separators are mounted in series, at least one of them having a feed for flocculating agent and air. More specifically, this liquid tank comprises metering pumps for flocculating agent and an air feed, together with a mixer for stirring and mixing in the air and agent. A float-mounted paddle or stripper cleans scum from the liquid surface and discharges it to a collecting tank.

USE/ADVANTAGE – As a truck-mounted cleaner for roads, car parks but esp. for airport runways, where considerable quantities of heavy metals, mineral oils and finely suspended particles are swept up and cannot easily be removed. By treating the flocculating agent, this problem is overcome and the water can be largely recycled, enabling the truck to remain in ' operation for considerable periods without discharge and refilling. 0/ 1

ABSTRACTED-PUB-NO:

DE 3538539C

EQUIVALENT-ABSTRACTS:

A truck-mounted cleaner for roads, airport runways and the like, comprises water jets and suction equipment for the water-dirt mixture, together with separators for the contained solids and suspended constituents. Several such separators are mounted in series, at least one of them having a feed for flocculating agent and air. More specifically, this liquid tank comprises metering pumps for flocculating agent and an air feed, together with a mixer for stirring and mixing in the air and agent. A float-mounted paddle or stripper cleans scum from the liquid surface and discharges it to a collecting tank.

USE/ADVANTAGE - As a truck-mounted cleaner for roads, car parks but esp. for airport runways, where considerable quantities of heavy metals, mineral oils and finely suspended particles are swept up and cannot easily be removed. By treating the flocculating agent, this problem is overcome and the water can be largely recycled, enabling the truck to remain in 'operation for considerable periods without discharge and refilling.

CHOSEN-DRAWING: Dwg.0/

TITLE-TERMS: TRUCK MOUNT CLEAN AIRPORT RUNWAY SEPARATE FLOCCULATE TANK SEPARATE MINERAL OIL HEAVY METAL PERMIT RECYCLE WATER

DERWENT-CLASS: J01 Q41 Q42

CPI-CODES: J01-F01;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-054034

Non-CPI Secondary Accession Numbers: N1987-097179



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L13: Entry 1 of 5

File: EPAB

May 7, 1987

PUB-NO: DE003538539A1

DOCUMENT-IDENTIFIER: DE 3538539 A1

TITLE: Movable device for cleaning roadways in particular

PUBN-DATE: May 7, 1987

## INVENTOR-INFORMATION:

NAME

COUNTRY

MEIER, JOACHIM DIPL ING

DE

STRATE, RICHARD

DE

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

MEIER JOACHIM DIPL ING

STRATE RICHARD

APPL-NO: DE03538539

APPL-DATE: October 30, 1985


PRIORITY-DATA: DE03538539A (October 30, 1985)

US-CL-CURRENT: 15/78

INT-CL (IPC): E01H 1/10; E03F 7/10; B01D 21/01

EUR-CL (EPC): E01H001/10; B01D021/00

## ABSTRACT:

CHG DATE=19990617 STATUS=O> A movable device 1 with a vehicle with a spraying and sucking device 2 serves for cleaning and/or removing coating from large areas such as landing runways of airports, roadways, car parks etc. The cleaning takes place with pressurised water which is sucked up again immediately with the impurities and cleaned in a number of series-connected separators, at least one separator on the vehicle also being designed as a liquid container, in which flocculent and air can be supplied so that even dissolved, colloidal or other harmful substances which cannot be removed by sieves and mechanical separators can be removed from the dirty water. The water can consequently always be reused without as a result discharging fine harmful substances once again. 

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L2: Entry 1 of 1

File: DWPI

Nov 6, 1996

DERWENT-ACC-NO: 1998-019588

DERWENT-WEEK: 199803

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TITLE: Method for preparation of high efficiency detergent for cleaning runway in airport

INVENTOR: FANG, Z; GENG, J ; ZHUANG, L

PATENT-ASSIGNEE:

ASSIGNEE

UNIV HUANAN SCI &amp; ENG

CODE

UYHUN

PRIORITY-DATA: 1996CN-0100959 (January 18, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>CN 1134977 A</u>	November 6, 1996		000	C11D007/30

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1134977A	January 18, 1996	1996CN-0100959	

INT-CL (IPC): C11 D 7/30; E01 H 3/00

ABSTRACTED-PUB-NO: CN 1134977A

BASIC-ABSTRACT:

This high efficiency airport runway cleaning agent is prepared by adding 35-62 wt.% dichloroethane or trichloroethane, 22.7-48.7 wt.% toluene, 6.7-12.8 wt.% solvent oil No.2, 0.5-1.2 wt.% N,N'- diphenyl thiourea, 0.8-1.0 wt.% sodium sulphonate, 1 wt.% Op-100, and 1.2-2.2 wt.% formic acid in sequence under atmospheric temperature into a container and mixing thoroughly. During application, two trough wagons work together with a distance of 10 minutes running between them, the front one is used to spray cleaning agent and the latter one is used to rinse with high pressure water.

ADVANTAGE - This cleaning agent is easy to prepare, it can wash out hard rubber residue on the runway and will not harm the runway surface.

TITLE-TERMS: METHOD PREPARATION HIGH EFFICIENCY DETERGENT CLEAN RUNWAY AIRPORT

DERWENT-CLASS: E19 G04 Q41

CPI-CODES: E10-A09B5; E10-A13A2; E10-H04C4; E10-J02B4; G04-B08;

2 1

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-007490

Non-CPI Secondary Accession Numbers: N1998-014785



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L13: Entry 2 of 5

File: DWPI

Nov 17, 1994

DERWENT-ACC-NO: 1994-350821  
DERWENT-WEEK: 199444  
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TITLE: Machine for removal of oil or grease from road surfaces etc – has tanks for clean and contaminated water, with water spray nozzles, brushes, and suction bar

INVENTOR: THUENER, U

PATENT-ASSIGNEE:	
ASSIGNEE	CODE
MABO FAHRZEUG & ANLAGENBAU ENTSORGUNGS	MABON

PRIORITY-DATA: 1993DE-0007097 (May 10, 1993)

PATENT-FAMILY:				
PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 624692 A2	November 17, 1994	G	011	E01H001/10
EP 624692 A3	March 8, 1995		000	E01H001/10

DESIGNATED-STATES: AT BE CH DE FR GB IT LI NL

CITED-DOCUMENTS:No-SR.Pub; DE 2323588 ; DE 3538539 ; EP 164315 ; EP 279729 ; EP 513714 ; US 4580312 ; US 5005253

APPLICATION-DATA:			
PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 624692A2	May 10, 1994	1994EP-0107270	
EP 624692A3	May 10, 1994	1994EP-0107270	

INT-CL (IPC): E01H 1/10

ABSTRACTED-PUB-NO: EP 624692A  
BASIC-ABSTRACT:

The machine has a chassis with storage tanks (4,7) for water to be sprayed and for collected oil/grease-containing water. The collection tank is a pressure/vacuum container. The water tank has a pressure pump (6.1) connected to it, and a connection line to spray nozzles in a brush head (10).

The brush is located at the front of the chassis, and has two opposite rotating brushes (15). The chassis carries a suction bar (20) at the back. This lifts the oil/grease-containing water, via a vacuum, which is generated in the collection tank by a vacuum device (5).

USE/ADVANTAGE – For roads, runways, etc, having ecological surfaces. All-over cleaning process. Contaminants are loosened, lifted directly, and fed to disposal device.

CHOSEN–DRAWING: Dwg.1 / 8

TITLE–TERMS: MACHINE REMOVE OIL GREASE ROAD SURFACE TANK CLEAN CONTAMINATE WATER WATER  
SPRAY NOZZLE BRUSH SUCTION BAR

DERWENT–CLASS: Q41

SECONDARY–ACC–NO:

Non-CPI Secondary Accession Numbers: N1994–275253